

**Commonwealth of Kentucky
Division for Air Quality**

PERMIT APPLICATION SUMMARY FORM

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GENERAL INFORMATION:

Name:	Henderson Municipal Power & Light, Station One
Address:	100 Fifth Street, Henderson, KY 42420
Date application received:	October 29, 2003
SIC/Source description:	4911/Fossil Fuel Electric Power Generation
EIS #:	21-101-00012
Application log number:	56105
Permit number:	V-04-002

APPLICATION TYPE/PERMIT ACTIVITY:

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input type="checkbox"/> Conditional major
___ Administrative	<input checked="" type="checkbox"/> Title V
___ Minor	<input type="checkbox"/> Synthetic minor
___ Significant	<input checked="" type="checkbox"/> Operating
<input checked="" type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input checked="" type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:017, 1(23)(b) or 51:052,1(14)(b)	

MISCELLANEOUS:

- ☒ Acid rain source
- ☒ NOx Budget source
- ☐ Source subject to 112(r)
- ☐ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☒ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

Pollutant	Controlled Total (tpy)	Title V Potential (tpy)
CO	592	592
HCl	135	135
HF	16.8	16.8
Pb	0.05	1.26
NO _x	1304	1304
PM ₁₀	96.1	1517
PT	341	7447
SO ₂	4349	4349
VOC	5.77	5.77

SOURCE DESCRIPTION:

An application for a renewal to the Title V Permit, V-97-013, for the Henderson Municipal Power & Light, Station One (Henderson) was received on October 29, 2003. The submittal included Title IV Acid Rain Permit renewal forms and a nitrogen oxides (NO_x) Budget Permit application.

The facility is classified as a Title V major source of air pollution based on the potential to emit more than 100 tons per year (tpy) of particulate matter less than 10 micrometers (PM₁₀), carbon monoxide (CO), sulfur dioxide (SO₂), and nitrogen oxides (NO_x). In addition, the facility has the potential to emit more than 10 tpy of hydrogen chloride (HCl) and hydrogen fluoride (HF).

Henderson has stated in their application that there has been no physical changes at the facility, since the submission of the original Title V permit application, but the applicable rules have changed regarding NO_x emissions from Emission unit #2 (Boiler #6), at the facility.

The existing Title IV Acid Rain Permit (AR-96-16) expired December 31, 2000. The existing Title V Permit (V-97-013) will expire on July 27, 2004. The Title V renewal application, Acid Rain Permit application, and a NO_x Budget application were received on October 29, 2003.

SOURCE PROCESS DESCRIPTION:

The source produces electricity from the combustion of coal. The source is operated primarily in summer months when loads are at the highest levels. There are two coal combustion units: Emission Unit 01 (Unit 5) is a 174 mmBtu/hr indirect heat exchanger with a spreader stoker constructed in 1955; and Emission Unit 02 (Unit 6) is a 390 mmBtu/hr indirect heat exchanger with a spreader stoker and flyash reinjection constructed in 1968. COMB1 and COMB2 have multiclones for control of particulate matter. COMB2 also has an electrostatic precipitator for control of particulate matter. There are two 1630 hp diesel generators, coal storage, coal crushing equipment, and handling equipment.

EMISSION AND OPERATING CAPS DESCRIPTION: N/A

OPERATIONAL FLEXIBILITY: N/A